



EA, XA, and ZA Series Amplifiers
Owner's Manual

Sonic Excellence with Eclipse

Amplificateurs EA, XA et ZA
Manuel du propriétaire

L'excellence acoustique avec Eclipse

EA, XA, y ZA Serie de Amplificadores
Manual del Usuario

La Sónica Excelencia con Eclipse

For your safety in using the EA, XA and ZA Series Amplifier

Warnings and caution signs, illustrated below, are posted throughout this manual. They show safe and correct ways to handle the product to prevent personal injury to you and others and to avoid damage to property. Before reading through the manual, take time to read through and learn the important information listed in this section.



Warning

This "Warning" sign indicates a situation in which incorrect handling through disregard of a sign may result in death or serious personal injury.



Caution

This "Caution" sign indicates a situation in which incorrect handling through disregard of a sign may result in personal injury or may result solely in damage to property.

ENGLISH



Warning

- This equipment requires 12V DC and should only be installed in a vehicle with a 12V negative ground electrical system. Any other installation may cause a fire or other severe damage to the equipment and the vehicle.
- Do not disassemble or alter this equipment. Accidents, fires or shocks may result.
- Do not let water or foreign objects enter the internal parts of this equipment. Smoke, fires or shocks may result.
- Do not use when it is broken. Accidents, fires or shocks may result.
- Always replace fuses with fuses of identical capacity and characteristics. Never use a higher rated fuse than the original. Using the wrong type of fuse may cause a fire or severe damage.
- If foreign objects or water enters the equipment, smoke comes out, or there is a strange odor, stop using it immediately, and contact your dealer. Accidents, fires, or shocks may result if you continue to use it in these conditions.
- Plastic bags and wrappings may cause suffocation and death. Keep away from babies and children. Never put bag over your head or mouth.



Caution

- When changing the installation location for this equipment, please consult the dealer where you bought it for safety reasons. Expertise is necessary for removal and installation.
- Keep volume to a reasonable level so that you can hear sounds from outside the vehicle, including warning sounds, voices, and sirens. Failure to do so may cause an accident.
- Do not touch the heat dissipating part of the amplifier. Burns may result from the heat of this part.
- Do not use this equipment except for in-vehicle use. Shocks or injuries may result.
- Be careful of the volume position when turning the power source ON. Hearing damage may result if very loud noise is emitted when the power is turned ON.
- Do not operate under abnormal conditions such as when the sound is distorted or cuts out. Fires may result.
- If placed in direct sunlight, metal parts may heat, resulting in the possibility of burns.
- If the equipment is dropped or the case is broken, turn off the power to the main unit and contact your dealer. If used in this condition, fires or shocks may result.

About Your Amplifier

Thank You for Your Purchase of this Eclipse Mobile Power Amplifier.

Your Eclipse Power Amplifier was Designed and Engineered in the USA for the best in performance and Manufactured with the best components possible. In order to realize the best performance in your system we recommend a professional installation by an authorized Eclipse Dealer. If you decide to do your own installation it is critical that you read this Manual to help understand the steps necessary to get the maximum performance from your new product. These Power Amplifiers are designed with the appearance similar to a Beautiful set of polished wheels and should be treated with respect to protect the Beauty and Integrity of the Product.

Planning the Installation

Before installing this Amplifier be sure you understand the features and how to adjust and tune the controls for proper matching between the Source Unit, the Amplifier and the Speaker System.

1. **Amplifier Location:** The Amplifier should be mounted to a flat surface with enough space for mounting hardware to be applied to the Four notches in the base of the product. Find a location for the Amplifier that will allow adequate ventilation for cooling. Even though this product is very efficient it is a power product and will require some air flow for the best cooling. Make sure the installation location is in a dry area away from possible water or liquid contamination. Never install this product in the engine compartment.
2. **Wiring:** Make sure the wiring to and from the Amplifier is protected from possible short circuit by sharp metal components or metal parts that can damage wiring when the car is reassembled after the installation. Wiring passing through fire walls or metal sections of the car should have grommets installed on them for protection against short circuits due to vibration and age.

Installing the Amplifier

1. **Before You start:** Disconnect the negative battery terminal. This will ensure a safe installation by eliminating the risk of having shorted power wiring while working on the car.

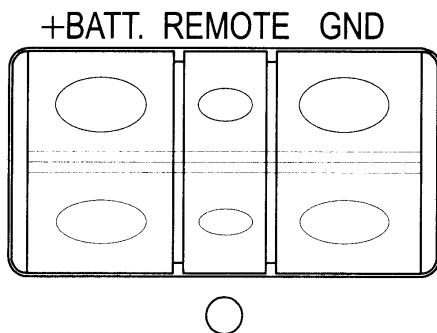
Note: You may refer to Crossover Frequency Selection before Mounting the Amplifiers.

Installing the Amplifier

2. **Mounting the Amplifier:** After a suitable location has been selected and the wires routed, the Amplifier can be attached to the Vehicle. Start out by removing the Polished Aluminum Trim Covers from the top of the Amplifier so the Mounting Hardware and the Wire Connections can be made. Set these aside in a safe location so they can be reinstalled after the Amplifier installation is complete. If the Amplifier location space is limited the Polished end covers may all be removed reducing the overall size of the Product.

⚠ Caution Never use a power tool to drive the mounting hardware while mounting this product. The Drill Chuck will damage the Heat Sink and Possibly the Connectors! The wiring can be connected to the Amplifier before or after it is attached to the Vehicle. Dressing the wiring is easier to do after all connections are made.

3. **Power Connections:** Pay attention to the polarity of the wires as You connect them to this product. We recommend at least 8 AWG Wire for connection between any one of the Amplifiers Battery Connectors and the Vehicle. The Power connectors will accept wire as large as 4 AWG. For the best performance and lowest voltage drop the B+ wire should be as large as possible. It is also recommended that a Fuse be placed within 18 inches of the positive Battery Terminal to protect the Car from possible short circuits between the Amplifier locations and the Battery. The ground wire will carry the same current as the B+ wire so it should be at least the same size. The ground wire does not have to run all of the way to the Negative Battery terminal, because the Car Chassis in most cases is the same ground as the negative battery terminal. A good ground screwed or bolted to the chassis where the paint has been carefully removed and conductive grease applied will provide a lasting reliable connection.



⚠ Caution

ATTENTION
Be Sure To Check Polarity
Before Connecting.

(Connections may Vary)

Note: You should check the Ground Wire between the Battery and the Vehicle Chassis and the Alternator Stand and the Vehicle Chassis to make sure that it is large enough to carry heavy current in the case that multiple Amplifiers are installed.

Strip about 5/8 inch (16mm) of insulation from the Power and Speaker wires that need to be connected to the Amplifier.

Optional: For that clean install you may wish to "tin" the bare ends of the wiring with a soldering iron before connecting to the amplifier.

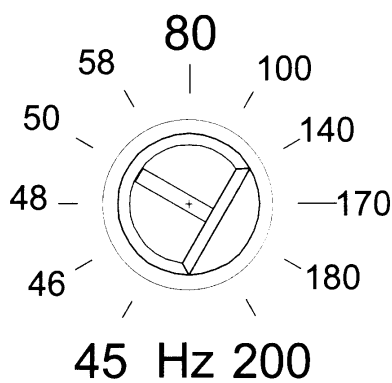
With the Allen (Hex Key) wrenches provided back the hardware out enough to insert the wires into the Power and Speaker Connectors and connect the wiring to the Amplifier being careful to not overtighten and possibly strip out the Mounting Screws. Connect the RCA Connectors to the Amplifier.

Adjusting the Amplifier

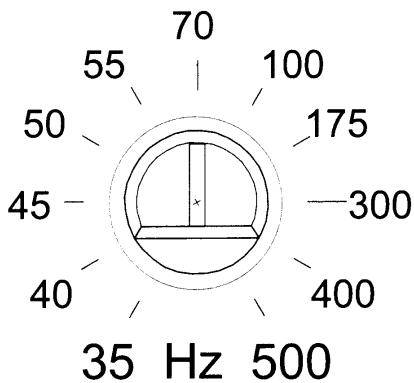
Crossover Frequency Selection: Please refer to (Fig 1) for a reference to frequency Selection for different models of Amplifiers.

1. Select the filter type based on the Amplifier Model and the Application Type. "Hi Pass or Low Pass"
2. Select the Crossover Frequency for Your type of Application and adjust the Control on the Amplifier. Refer to the Diagram for frequency position

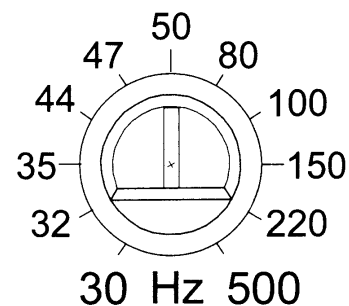
ENGLISH



XA/ZA LP Filter



XA4200
HP/LP Filter



EA4200
HP/LP Filter

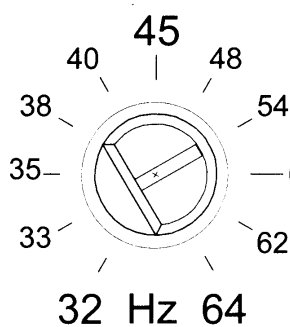
FIG 1

Bass Boost Adjustment:

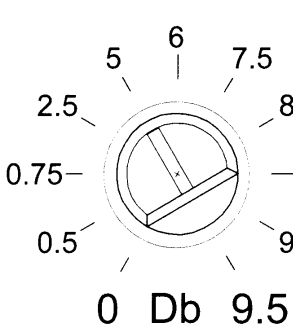
1. If Bass Boost is Required You may adjust the Frequency Center for the Bass Boost EQ Band on the XA1200 and the ZA1200.
2. Select the amount of Bass Boost and make the adjustment to the control. Refer to the diagram for the amount of Boost in dB.

Please Refer to the Diagram for selecting the Center Frequency. The EA4200 and the XA4200 have a fixed center frequency at 45 Hz.

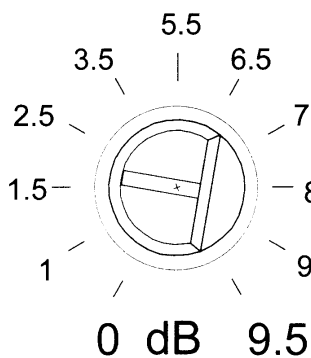
Note: You may wish to adjust the Bass Boost by listening after the system is completed.



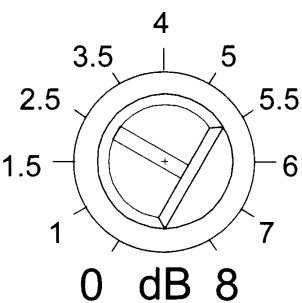
Bass Boost
Frequency
ZA/XA1200



Bass Boost
ZA/XA 1200



Bass Boost
XA4200

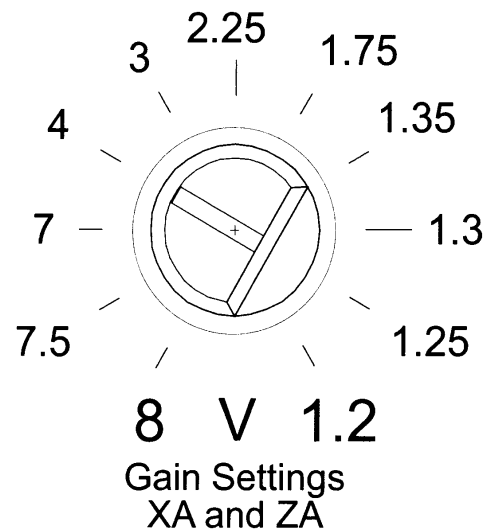
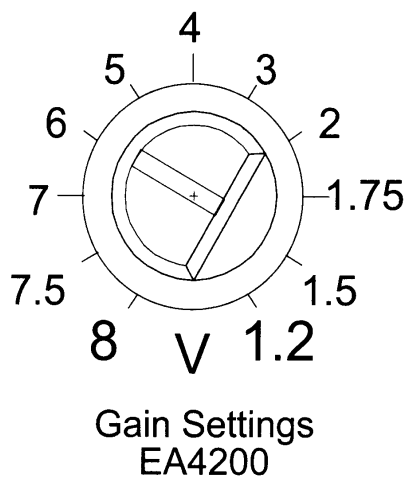


Bass Boost
EA4200

Amplifier Gain Adjustment:

*If a subwoofer level control is used with this application at this time Turn the Control full Clockwise (up all the way).

1. Adjust the sensitivity controls full counterclockwise (8 V setting).
Use a CD or DVD with High Energy Music and adjust the Gain to about 80% of the Source Units Maximum output. Make sure the Balance and Fader are in Center Positions. Make sure the Bass and Treble are boosted on the Source Unit.
2. While playing Music increase the Amplifier Gain to a Point just below audible distortion in the Music. Adjust each of the amplifiers individually. After setting the Amp Gain Controls You May Fine Tune them individually with the entire system running at a lower overall level. It is recommended that while tuning from this point, Individual Amplifier Gains can be Attenuated to compensate for System Balance.



Troubleshooting

If a problem occurs after your system is installed, please refer to this troubleshooting section for solutions.

ENGLISH

Problem	Possible Cause	Possible Solution
1. Amp wont power on	No fuse installed in the amplifier or fuse is blown.	Install new fuse
	Ground Cable is not connected	<u>Check for 12V between B+ amp connector and Amp Ground Connector:</u> Make sure ground Cable is connected to both amp and car Ground
	Remote line in is not powering on	After turning Source on measure for voltage Between amp power ground and remote terminal. Make sure remote wire is connected to the Correct remote output from the source unit. Check connections and power at source unit
2. Amp Blows Fuses	Power Cables in Reverse Polarity	<u>Make sure B+ and PWR GND cables connected to the correct terminals:</u> Connect correctly
	Wrong size fuse installed in amplifier	<u>Make sure fuse size is correct:</u> Check spec Sheet (back of this book) for correct size
3. Amp is on but no sound from one or more channels	RCA cables not connected	<u>Make sure RCA cables are connected on both ends:</u> Make connections
	Defective RCA Cable	<u>Test RCA Cable for Signal:</u> Replace if necessary
	Speaker wires not connected	<u>Make sure speaker wires are connected on Both ends:</u> Make connections
	Speaker wires connected to wrong terminals	Make sure speaker wires are connected To the correct terminals
	Input Gain Controls turned down	Make sure gains are adjusted to source unit:

Troubleshooting

Problem	Possible Cause	Possible Solution
4. Amplifier goes into protect mode	One or more speakers are shorted	<p><u>Make sure there are no speaker shorts:</u> With the amplifier turned off disconnect speaker from amp and test for a short across the Speaker.</p> <p>Test for a short between the speaker and chassis or body of the car.</p> <p>With the speakers connected and amp turned off Test for a short between the amplifier output And the chassis or body of the car.</p>
	Input Gains turned up to far, with a low Impedance Load	Turn Input Sensitivity Control Down.
5. Amp has engine noise	Speaker ground is shorted to car body	<p><u>Test for negative speaker short:</u> Make sure negative speaker lead is not shorted to car chassis or body.</p>
	Outer barrel of RCA connector is shorting to the Amplifier chassis	With amp off, disconnect RCA Cables And test for the impedance between the Barrel of the RCA and the amp power ground. If no negative speaker lead short, the impedance is nearly shorted (low resistance). Call Eclipse Technical support.
6. Distorted Output	Amplifier gain is too high	Turn amplifier gain down so Audio level is just below audible distortion.
	Too much input signal	<u>Source unit output level is more than 8 Volts RMS:</u> Reduce gain at Source Unit
	Damaged Speaker	<u>Check Speaker with alternative Source:</u> Replace Speaker
	Source Unit output is distorted	Test Source Unit with alternate system like a Display or function verification unit. Replace Source Unit.
7. Unit Pumps on and off	Speaker is shorted	Test for shorted speaker: Remove short from speaker, or replace shorted Speaker.
	Poor connection to Power wires or Poor Battery connection	<u>Test connections at B+ cable and Power Ground:</u> Repair Power Cable connections.

Troubleshooting

ENGLISH

Problem	Possible Cause	Possible Solution
8. Poor Bass Output	Gain Control for Subwoofer is too low	<u>Check Source Unit settings and Input Gain Control:</u> Adjust gain control on Source unit or at amplifier Input.
	Crossover is set up incorrectly	<u>Check crossover frequency settings:</u> Adjust Crossover
	Subwoofers are wired out of phase	<u>Check subwoofer wiring and phase:</u> Correct wiring of subwoofer to be in phase.
	Acoustical misalignment of subwoofer	<u>Check to be sure the box is not too small for the Subwoofer operating parameters:</u> Correct box size
Poor Bass Output	Tone Controls on Source Set Incorrectly	<u>Check to make sure the tone controls are set To a flat position and not to cut position:</u> Set tone controls to flat or by pass position.
9. Speaker pops when unit is turned on or off	Source unit is sending pop noise to amplifier	<u>Disconnect RCA inputs then turn source unit on and off:</u> If pop noise is gone try a different Source Unit.
	Possible ground loop noise	<u>Check to make sure grounds are correct so No ground loops can exist:</u> If poor grounds Correct the grounding.
	DC offset at amplifier output	<u>Measure the amount of DC voltage across The speaker connectors at the output of the Amplifier:</u> If the DC offset voltage at the amplifier output is greater than 70mV it will cause a turn on sound. Change the amplifier.
10. Bass Boost Distorted	Input gain set too high or remote sub level control is turned all the way up	<u>Check gain settings:</u> readjust gain settings with remote sub control at center position
	Bass Boost Level Too High	Readjust Bass Boost Level and Amplifier Input Sensitivity with Bass Boost Gain at the Boosted Level.

Troubleshooting

11. Amp runs hot	Inadequate ventilation	Make sure unit has proper ventilation:
	Load impedance is too low	<u>Check load impedance against the specifications:</u> Connect the proper load impedance.
12. Amp wont shut off	Remote on wire is staying high or at 12V	Measure voltage between Remote on terminal and the power ground terminal: If the voltage is high disconnect the Source Unit And see if the amp shuts off. If it does try a different source unit.

ENGLISH

Note: If after carefully following these instructions you still have a problem, please contact Eclipse Technical Support at 1-800-233-2216

Specifications

EA4200 / XA4200

Power Output: RMS Power at 14.4 Volt Power Supply @ CEA 2006

EA4200

4Ω @ 20 Hz to 20 KHz Stereo	60W X 4
2Ω @ 20 Hz to 20 KHz Stereo	70W X 4
4Ω @ 20 Hz to 20 KHz Bridged	140W X 2

XA4200

4Ω @ 20 Hz to 20 KHz Stereo	100W X 4
2Ω @ 20 Hz to 20 KHz Stereo	200W X 4
4Ω @ 20 Hz to 20 KHz Bridged	400W X 2

Max Power Output: Peak Music Power at 14.4 Volt Power Supply

EA4200

4Ω Stereo @ 1 KHz	100W X 4
4Ω Bridged @ 1 KHz	170W X 2

XA4200

4Ω Stereo @ 1 KHz	250W X 4
4Ω Bridged @ 1 KHz	600W X 2

Input Sensitivity 1.2V – 8V

Low / High Pass Frequency Selection Variable (EA4200) 32 Hz – 500 Hz

Low / High Pass Frequency Selection Variable (XA4200) 40 Hz – 500 Hz

Bass Boost 8dB @ 45 Hz

Subsonic Filter 18dB / octave @ 20Hz

Signal to Noise (CEA 2006) > 80 dB

Frequency Response 20Hz ~ 20KHz (EA4200) +0, - 3 dB

Frequency Response 20Hz ~ 20KHz (XA4200) +0, - 0.5 dB

Channel Separation < 70 dB

Damping Factor (CEA 2006) >80

Quiescent Current (Idle Current) ~ 1.2Amp

Maximum Current (EA4200) 30A Maximum Current (XA4200) 100A

Amp Protect Temperature (Heat Sink) 90° C

Dimensions (EA4200) 7.5" (190mm) X 2.36" (60mm) X 10.1" (256mm)

Dimensions (XA4200) 12.2" (310mm) X 2.36" (60mm) X 10.1" (256mm)

NOTE: Specifications are subject to change without notice.

Specifications

XA1200 / ZA1200

Power Output: RMS Power at 14.4 Volt Power Supply @ CEA 2006

XA1200

4Ω @ 20 Hz to 20 KHz Mono 500W X 1

2Ω @ 20 Hz to 20 KHz Mono 500W X 1

ZA1200

4Ω @ 20 Hz to 20 KHz Mono 1000W X 1

2Ω @ 20 Hz to 20 KHz Mono 1000W X 1

Max Power Output: Peak Music Power at 14.4 Volt Power Supply

XA1200

4Ω Mono @ 1 KHz 700W X 1

ZA1200

4Ω Mono @ 1 KHz 1200W X 1

Input Sensitivity 1.2V – 8V

Low Pass Frequency Selection Variable (Linkwitz Riley 18dB/Octave) 40 Hz – 500 Hz

Bass Boost 0 – 8dB Cont. Variable

Bass Boost Frequency Selection 32Hz – 64Hz Cont. Variable

Subsonic Filter 18dB / octave @ 20Hz

Signal to Noise (CEA 2006) > 80 dB

Frequency Response 20Hz ~ 20KHz +0, - .5 dB

Damping Factor (CEA 2006) (XA1200) >90

Damping Factor (CEA 2006) (ZA1200) >100

Quiescent Current (Idle Current) ~ 1.2Amp

Maximum Current (XA1200) 100A

Maximum Current (ZA1200) 160A

Amp Protect Temperature (Heat Sink) 90° C

Dimensions (XA1200) 10.2" (260mm) X 2.36" (60mm) X 10.1" (256mm)

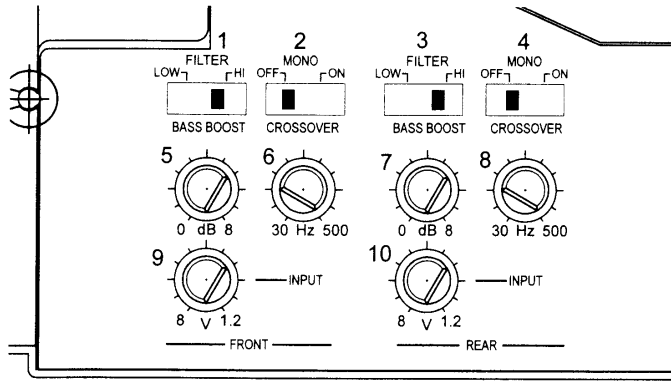
Dimensions (ZA1200) 12.2" (310mm) X 2.36" (60mm) X 10.1" (256mm)

ENGLISH

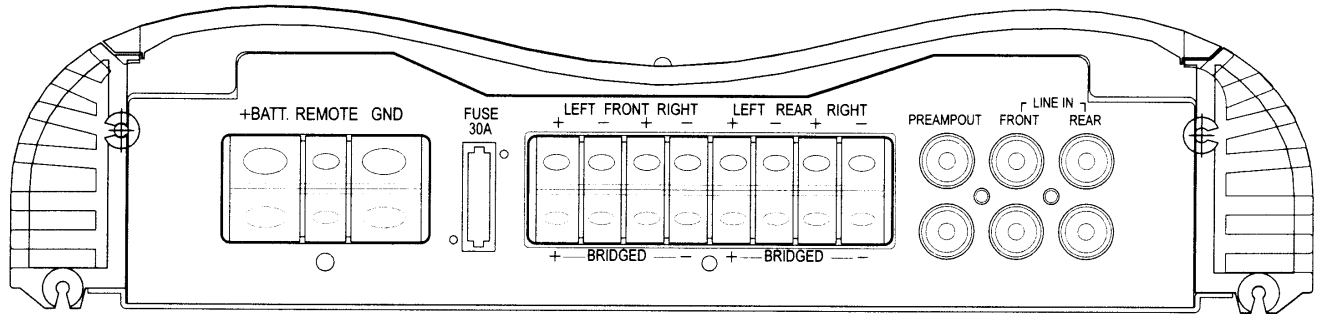
NOTE: Specifications are subject to change without notice.

Controls

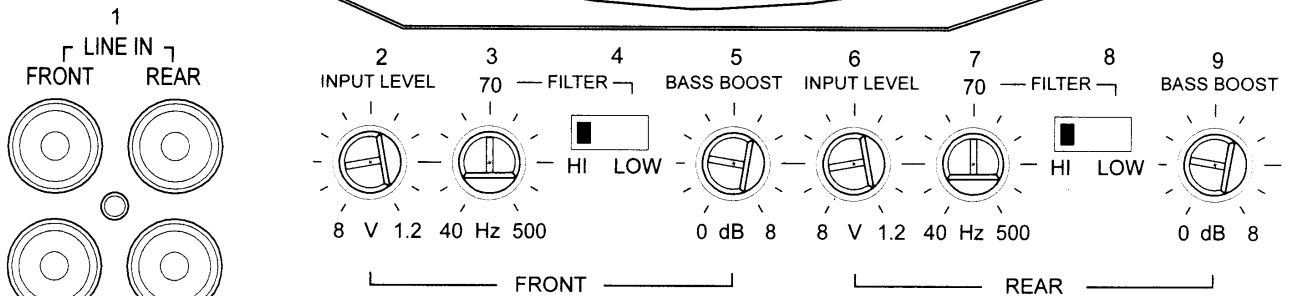
EA4200



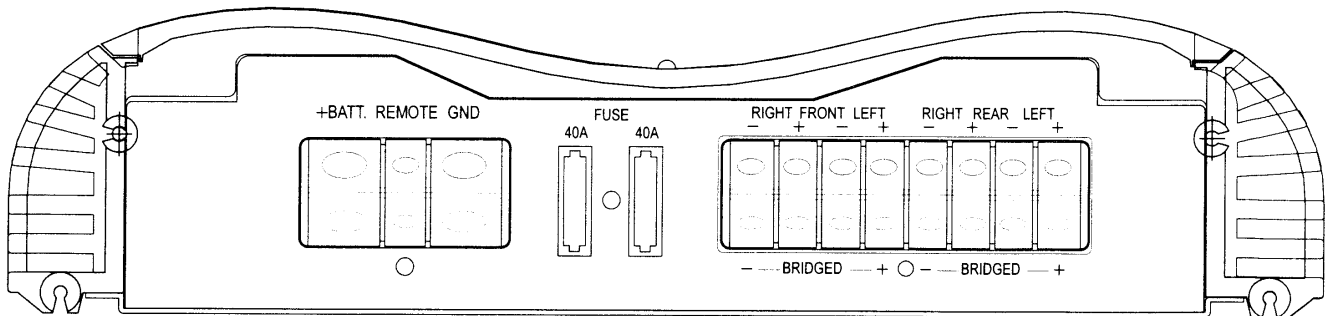
- 1-3 Hi / Lo Pass Filter Selection Switch (Front and Rear)
- 2-4 Mono Selection (Front / Rear)
- 5-7 Bass Boost (Front / Rear)
- 6-8 Crossover adjustment (Front / Rear)
- 9-10 Input Level (Front / Rear)



XA4200

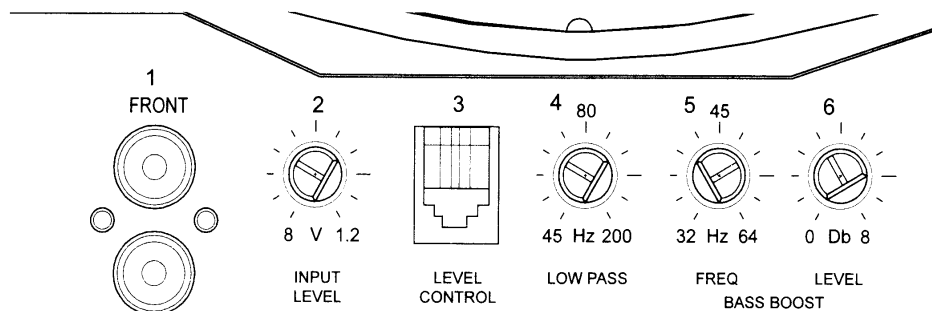


- 1 Line In (Front and Rear)
- 2-6 Input Level (Front and Rear)
- 3-7 Filter Frequency adjustment
- 4-8 High or Low Pass Filter switch
- 5-9 Bass Boost Adjustment



Controls

XA1200



1 Line Input

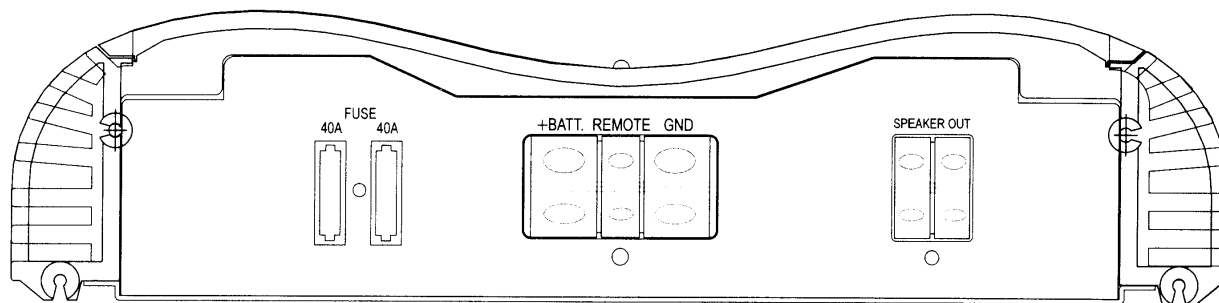
2 Input Level

3 Bass Level Control

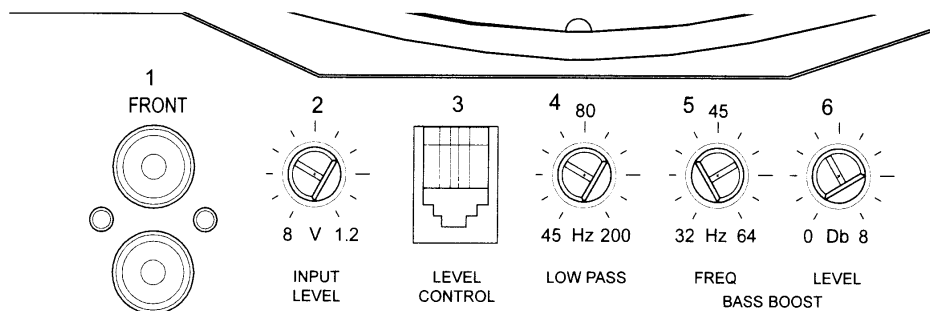
4 Low Pass Filter Frequency Selector.

5 Bass Boost Frequency Selector

6 Bass Boost Level Control



ZA1200



1 Line Input

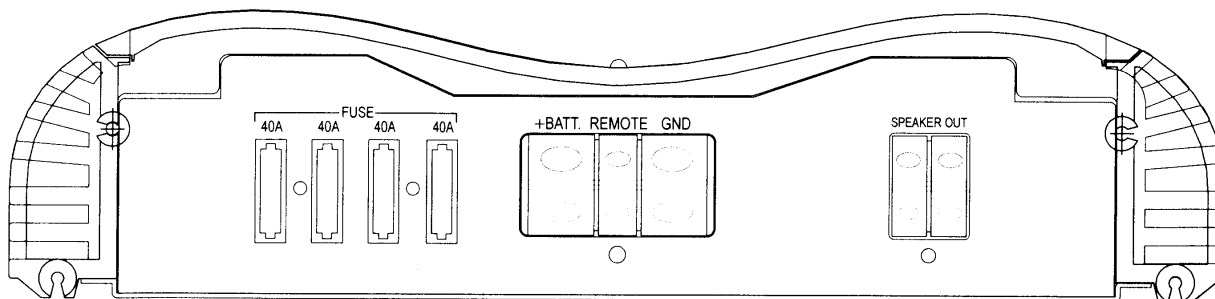
2 Input Level

3 Bass Level Control

4 Low Pass Filter Frequency Selector.

5 Bass Boost Frequency Selector

6 Bass Boost Level Control





Fujitsu Ten Limited
Contact : Fujitsu Ten Corp. of America
19600 So. Vermont Avenue, Torrance, CA 90502
Call : (800) 233-2216 www.eclipse-web.com

Fujitsu Ten Limited
Communiquez avec : Fujitsu Ten Corp. d'Amérique
19600 So. Avenue Vermont, Torrance, CA 90502
Téléphonez au : (800) 233-2216 www.eclipse-web.com

Fujitsu Ten Limited
Contacto : Fujitsu Ten Corp. d'Amérique
19600 So. Vermont Avenue, Torrance, CA 90502
Llame : (800) 233-2216 www.eclipse-web.com



Fujitsu Ten Corp. of America

Garantie limitée du consommateur

Garantie valable uniquement aux É.U. et au Canada

Cette garantie limitée fournie par Fujitsu Ten Corp. of America ("Eclipse") couvre, sous utilisation normale, toutes déficiences matérielles et main d'œuvre de votre nouveau produit Eclipse acheté chez un détaillant agréé Eclipse aux É.U. ou au Canada, pendant une durée de une (1) année à compter de la date d'achat d'origine. Cette garantie limitée est valable seulement pour l'acheteur consommateur initial du produit Eclipse qui doit résider aux É.U. ou au Canada, elle NE peut PAS être transférée.

Les reçus ou autres preuves admissibles d'achat montrant la date de l'achat initial sont requis pour la garantie de ce produit. Eclipse pourrait vous facturer ou refuser de vous rendre le service pour le produit Eclipse sans preuve d'achat valable.

CE QUI EST COUVERT

Si le produit devient défectueux au point de vue matériel ou main d'œuvre à la suite d'une utilisation normale au cours de la période d'un (1) an à partir de la date d'achat initiale, Eclipse réparera votre produit Eclipse, à sa discrétion et ce sans frais, avec des composantes ou pièces neuves ou recyclées ou remplacera le produit par un produit recyclé identique ou un modèle fonctionnellement équivalent. Eclipse conserve sa propriété sur toutes les pièces engagées ou produits remplacés sur la base d'une substitution. Eclipse vous réexpédiera l'élément et couvrira les frais d'expédition.

CE QUI N'EST PAS COUVERT

1. Cette garantie limitée ne couvre aucun produit réparé par un individu, un détaillant ou un centre de service non agréé, ni aucun produit acheté auprès d'un détaillant non agréé.
2. Cette garantie limitée ne couvre aucun produit ayant fait l'objet de mauvais traitement, d'un mauvais usage, de négligence, d'un accident, de modifications, de mauvaise connexion avec des périphériques, d'une tentative de vol, de surtension électrique, de dommages par un liquide, d'inondation, de dommages par la foudre ou autres actes de la nature, qui ont été utilisés de manière autre que selon les instructions fournies par Eclipse ou en dehors des limites de spécifications ou ayant un numéro de série altéré, dégradé ou enlevé.
3. Cette garantie limitée ne couvre pas l'élimination de l'électricité statique de la voiture, le bruit du moteur ou les autres interférences électriques, les corrections de problèmes découlant de média inappropriés tels que CD, DVD ou carte mémoire, le système d'antenne du véhicule et son installation défectueuse et la désactivation du code de sécurité pour les produits contenant la fonction Numéro de série électronique (NSE).
4. Cette garantie limitée ne couvre pas les dommages cosmétiques y compris aux panneaux frontaux et aux affichages de type LCD ou TFT, l'usure normale, le remplacement de la batterie ou la maintenance régulière.
5. Cette garantie limitée ne couvre pas les dommages causés par les produits Eclipse aux médias tels que CD, DVD ou autres, y compris leur contenu.
6. Cette garantie limitée ne couvre aucune de vos dépenses acquittées ou contractées en rapport avec cette garantie. Vous êtes, par exemple, responsable de l'enlèvement et de l'installation du produit ainsi que l'expédition vers Eclipse, les frais d'expéditions et tout dommage pendant l'expédition.
7. Cette garantie limitée ne s'applique pas lorsque les produits sont utilisés dans un commerce, une entreprise ou toute application industrielle ou commerciale.

COMMENT OBTENIR LE SERVICE ASSOCIÉ À LA GARANTIE

Certaines instructions de produits Eclipse fournissent des procédures de diagnostic pour **déterminer si votre produit nécessite le service**. La solution la plus rapide peut être trouvée dans les instructions. Veuillez d'abord regarder ici.

Si vos HAUT-PARLEURS DE VOITURE Eclipse requiert un service, veuillez contacter, pour le service, le détaillant où vous avez acheté ce produit. Pour d'autres produits Eclipse, contactez votre détaillant où vous avez acheté ce produit pour vérifier que le produit requiert un service. **En cas de besoin de service, veuillez appeler ou visiter notre site Web ci-dessous pour obtenir un numéro de réclamation.** Vous devez suivre les instructions de réexpédition fournies sur obtention du numéro de réclamation. **Eclipse N'ACCEPTEA aucun produit sans numéro de réclamation.**

Centre agréé de service après-vente de Eclipse

1-800-233-2216 pour les consommateurs des É.U. SEULEMENT / 1-888-557-8278 pour les consommateurs du Canada SEULEMENT
ou www.eclipsediamondservice.com

AVIS DE NON-RESPONSABILITÉ POUR LOGICIEL DE SYSTÈME DE NAVIGATION ET DE STOCKAGE DE DONNÉES

Tout logiciel de système de navigation fourni avec les produits Eclipse est fourni « tel quel », avec tous ses défauts et sans garantie quelconque. Les logiciels de système de navigation peuvent contenir des bogues ou erreurs et peuvent donner des directions erronées. Eclipse ou ses marchands n'auront aucune responsabilité envers vous en rapport avec l'utilisation ou le mauvais usage ou de la dépendance au logiciel de système de navigation.

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LES DROITS DANS VOTRE ÉTAT

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